

No. 621,599.

Patented Mar. 21, 1899.

J. A. BUCKWALTER.  
STOVE DAMPER.

(Application filed July 23, 1898.)

(No Model.)

Fig. 1.

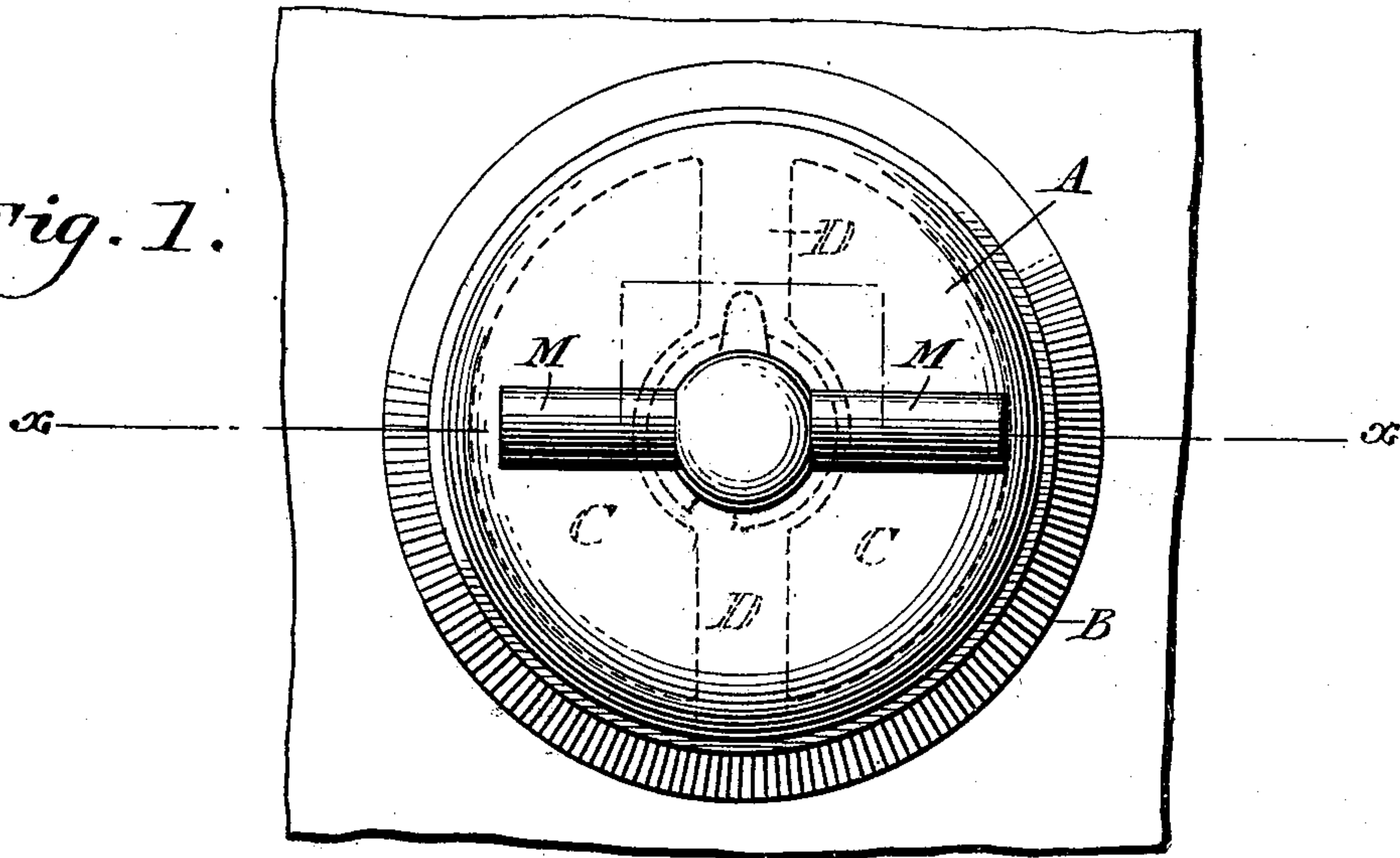


Fig. 2.

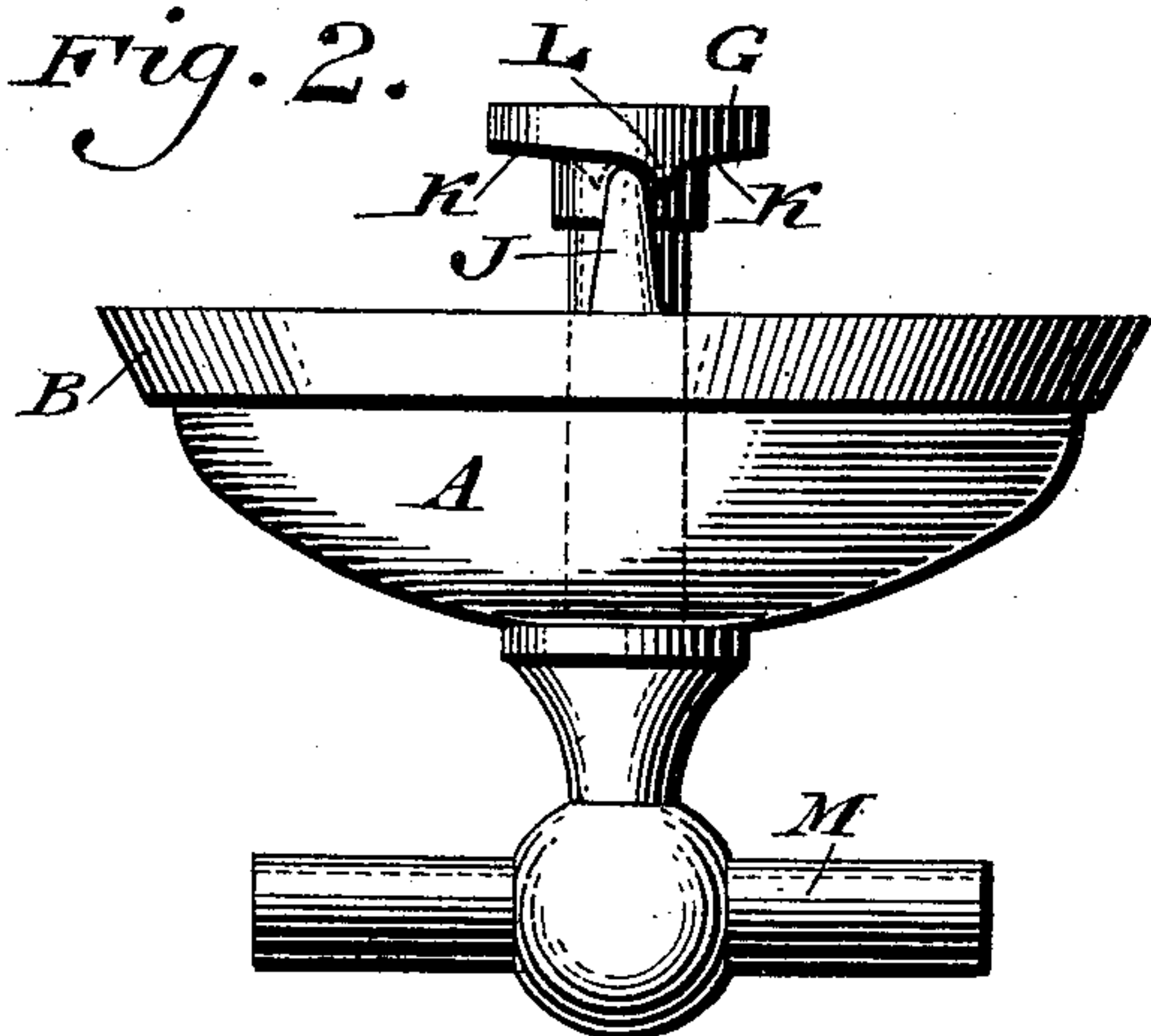


Fig. 3.

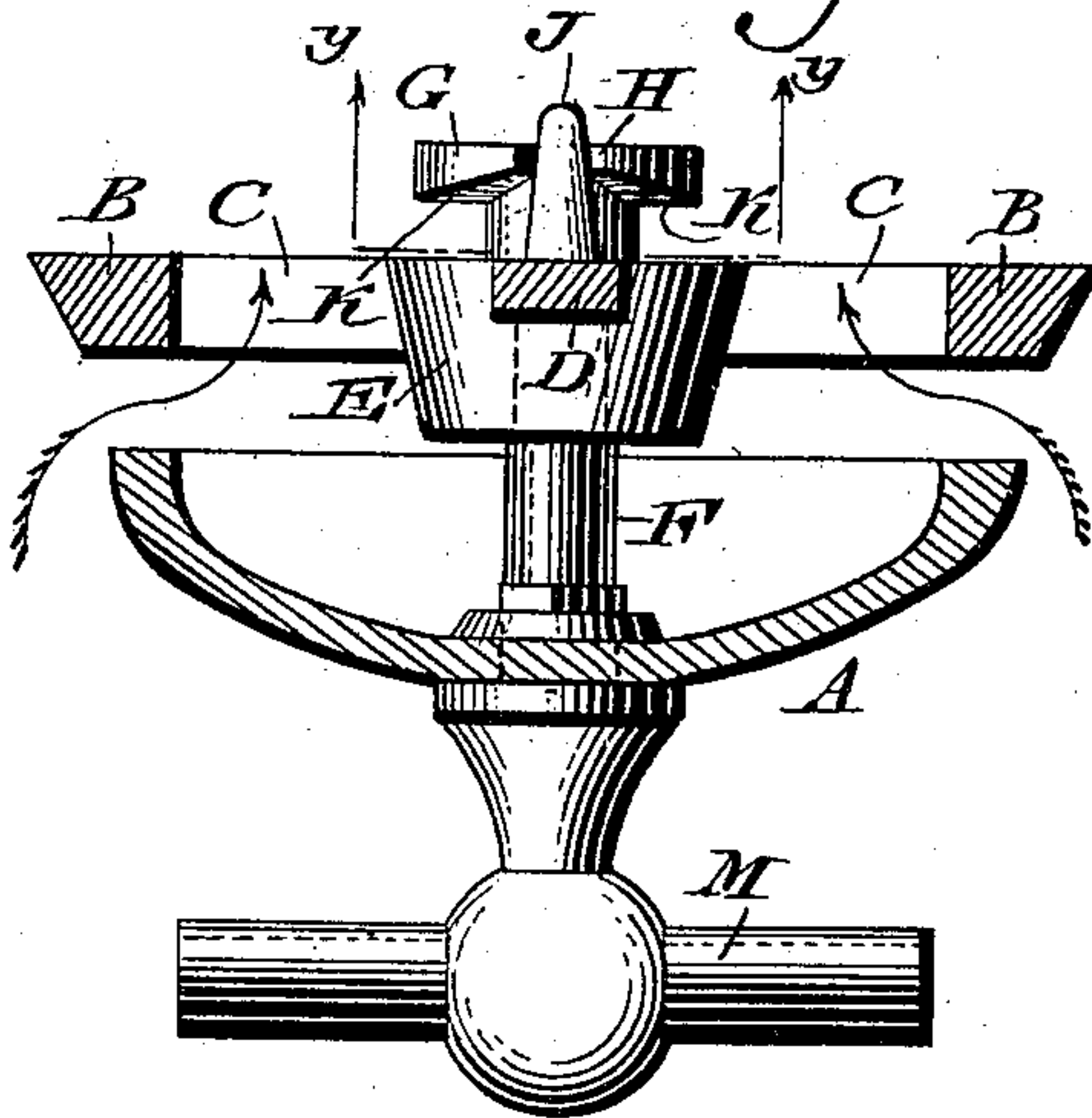


Fig. 5.

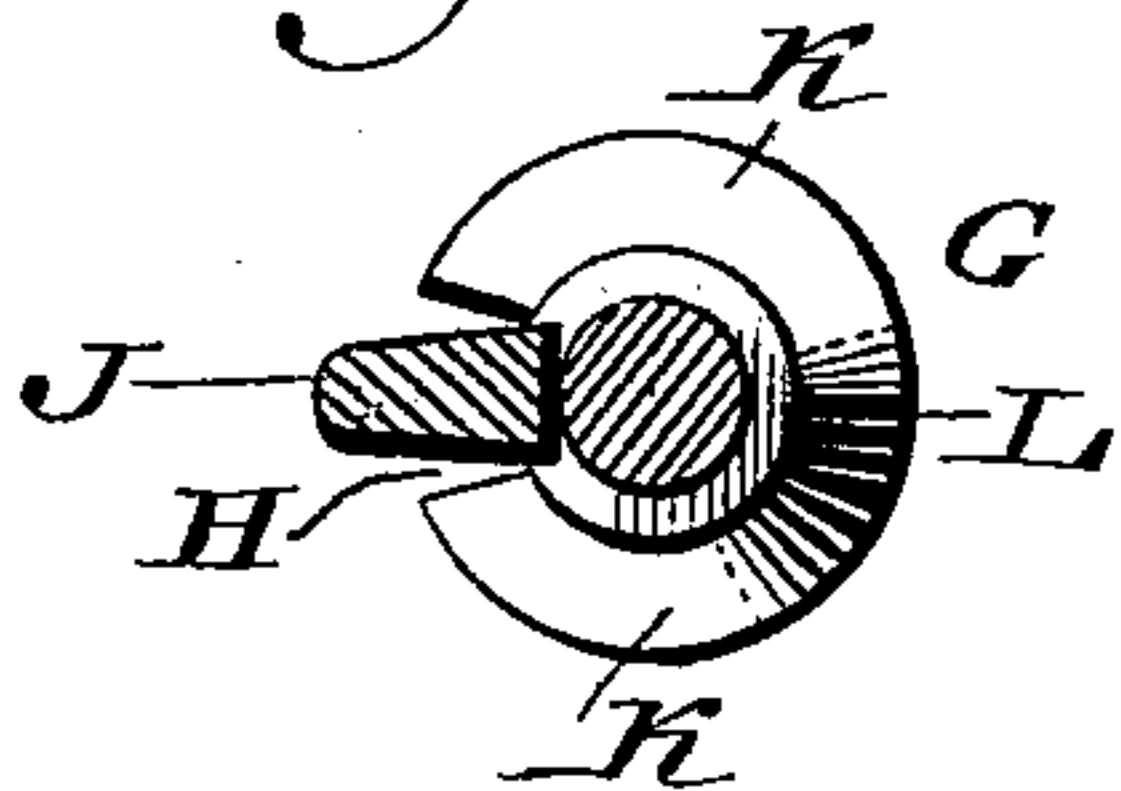
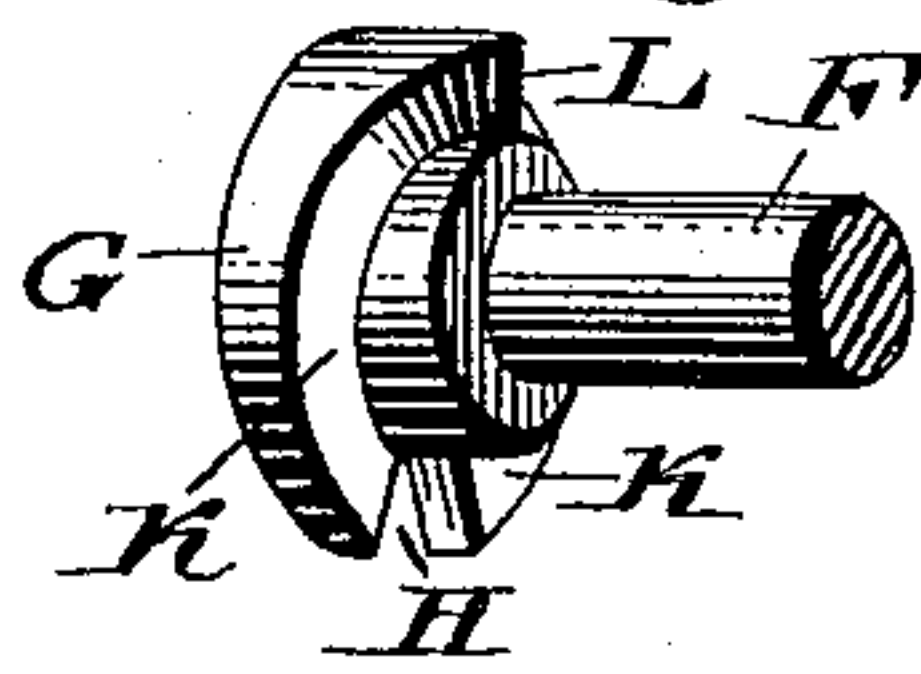


Fig. 4.



Witnesses

P. F. Hagler  
M. G. Lukens.

Inventor  
Joseph A. Buckwalter.  
By Giedersheim & Fairbanks  
Attorneys



# UNITED STATES PATENT OFFICE.

JOSEPH A. BUCKWALTER, OF ROYERSFORD, PENNSYLVANIA, ASSIGNOR TO  
THE BUCKWALTER STOVE COMPANY, OF PENNSYLVANIA.

## STOVE-DAMPER.

SPECIFICATION forming part of Letters Patent No. 621,599, dated March 21, 1899.

Application filed July 23, 1898. Serial No. 686,655. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH A. BUCKWALTER, a citizen of the United States, residing at Royersford, in the county of Montgomery, State of Pennsylvania, have invented a new and useful Improvement in Stove-Dampers, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a stove-damper formed of a damper-plate, a seat therefor, and a double-cam head carried by the stem of said face-plate, said head being adapted to ride on a member of the seat, whereby by the rotation of the plate said head causes the opening of the damper to the proper extent, the rotation of said plate in either direction causing the closing of the damper, when the plate may be locked with said member and prevented from opening.

Figure 1 represents a front view of a stove-damper embodying my invention. Fig. 2 represents a side elevation thereof. Fig. 3 represents an irregular section on line *xx*, Fig. 1. Fig. 4 represents a perspective view of the head of the damper and adjacent portion of the stem which carries the same. Fig. 5 represents a section of a portion on line *yy*, Fig. 3.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates the face-plate of a damper, and B designates the seat therefor, the latter being secured to any suitable part of a stove and having therein the draft-passages C, which are on opposite sides of the bridge D of said seat and adapted to be covered by said plate A when the damper is in closed condition, as shown in Fig. 2.

E designates a boss which is secured to the bridge D, through the center of which boss and bridge is freely passed the stem F, which projects rearwardly from the face-plate A and whose inner end is connected with the head G, the latter having in its periphery the recess H, which is adapted to receive the tongue J, which projects rearwardly from the bridge D, said head having also on its front face the cam or spiral walls K K, extending in opposite directions, each of said walls beginning at the recess H at the narrowest part of said cam or walls and joining the other at the highest point or rise thereof, forming the

shoulder L, it being noticed that the rear end of the tongue J is adapted to ride on either of said walls K and abut against the shoulders L as stops.

M designates the handle of the face-plate A for conveniently rotating the latter.

When the damper is open, the plate A is removed from the seat B and the draft-passages C are uncovered. As the head G is connected with the stem F, which carries said plate, it abuts against the bridge D and the tongue J occupies the recess H, so that rotation of said head, and consequently of the plate A, is prevented, and thus the damper remains in open condition. In order to close the same, the plate is pushed in to full extent, so that the recess H is removed from the tongue J. The plate A is now turned, whereby either spiral wall K of the head bears against said tongue and rides on the same, thus moving said head inwardly, and with it the stem F and plate A, forcing the latter on the seat B and covering the passages C, whereby the damper is fully closed.

In the rotation of the plate A to close the damper the same may be accomplished to the right or left; but in either case when the rotation is completed the shoulder L abuts against the tongue J and so limits such rotation and stops the damper at the proper place.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a stove-damper, a damper-plate, a rotatable stem carrying the same, and a seat for said plate provided with a draft-passage, in combination with a cam-head connected with said stem and adapted to ride on a member of said seat, the cams of said head extending in reverse order and joining at the rise thereof forming a shoulder.

2. A stove-damper consisting of a damper-plate, a seat therefor provided with a draft-passage, a rotatable stem carrying said plate, a double-cam head on said stem and a member on said plate on which said head may ride, said head having a recess adapted to receive said member when the damper is open.

JOSEPH A. BUCKWALTER.

Witnesses:

T. D. BUCKWALTER,  
R. E. SPRINGER.